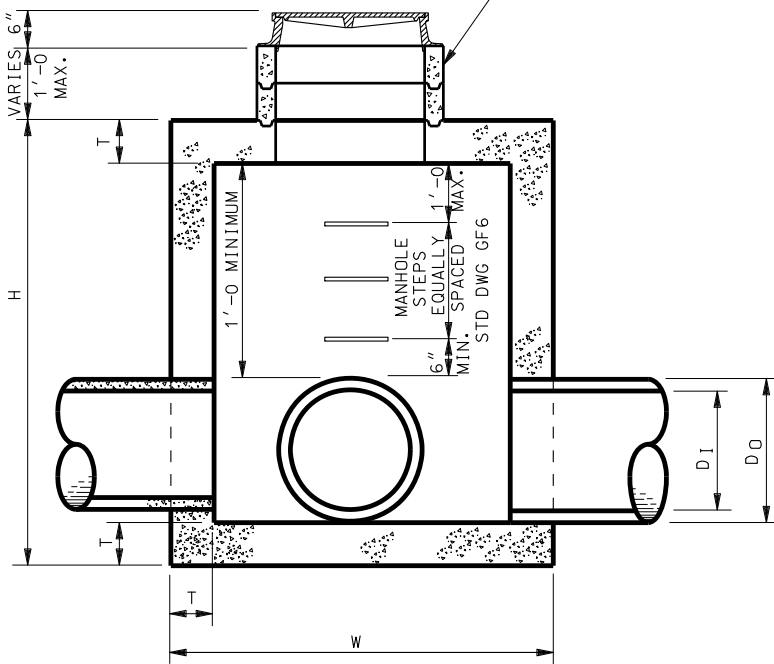


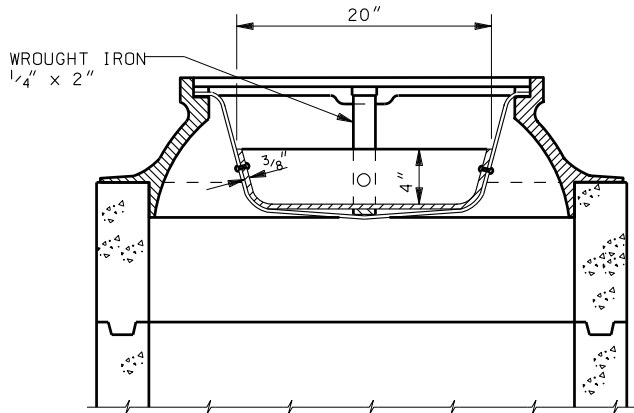
BOX PLAN

FURNISH PRECAST GRADE RINGS IN HEIGHTS OF 4 INCH, 6 INCH OR 8 INCHES. TOTAL HEIGHT OF GRADE RINGS NOT TO EXCEED 1 FOOT.

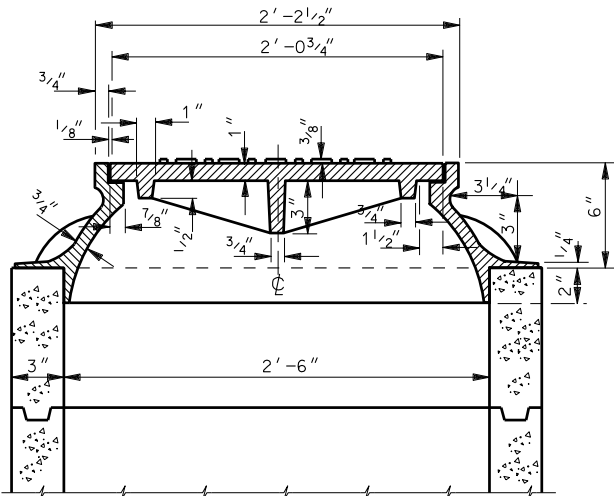
USE PRECAST CONCRETE GRADE RINGS TO ACHIEVE FINISH GRADE ELEVATION. INCLUDE COST IN CONTRACT PRICE FOR MANHOLE FRAME AND COVER.



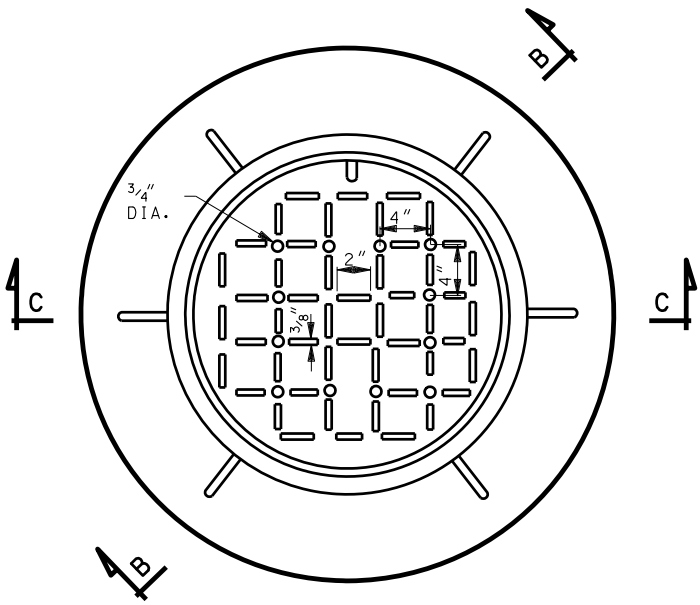
SECTION A-A



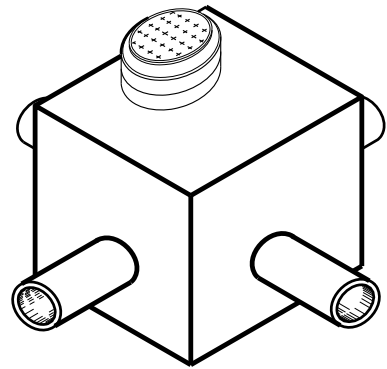
SECTION B-B
(PAN SECTION - LID REMOVED)



SECTION C-C
(LID SECTION - PAN REMOVED)



MANHOLE PLAN



ISOMETRIC VIEW

NOTES:

1. USE COATED DEFORMED REINFORCING STEEL BARS CONFORMING TO AASHTO M 284 OR M 111 AND M 31 GRADE 60 RESPECTIVELY.
2. FIELD CUT AND BEND REINFORCING STEEL AS NECESSARY TO CLEAR PIPES AND MAINTAIN 2" COVER. REPAIR ANY DAMAGE OR CUTS TO THE EPOXY COATING ON REINFORCING BARS.
3. USE CLASS AA (AE) CONCRETE.
4. USE TYPE II CEMENT (LOW ALKALI).
5. PROVIDE 2" CONCRETE COVER TO REINFORCING STEEL.
6. FURNISH MANHOLE COVER IN EITHER DUCTILE IRON (ASTM A 536 GRADE 60) OR GRAY CAST IRON (AASHTO M 105, CLASS 30B).
7. FOR NUMBER, LOCATION, AND SIZE OF PIPE SEE ROADWAY PLANS.
8. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
9. FOR MANHOLE STEP DETAIL SEE STD DWG GF 6.

DESIGN DATA

HS 20-44 OR ALTERNATE LOADING IN ACCORDANCE WITH CURRENT AASHTO INTERIM SPECIFICATIONS FOR CAST IN PLACE STRUCTURAL CONCRETE.

STRUCTURAL STEEL $F_s = 24,000$ psi
STRUCTURAL CONCRETE $f_c = 1,400$ psi
 $f_y = 60,000$ psi
 $n = 8$

QUANTITIES

STRUCTURAL CONCRETE — SEE SCHEDULE OF INSTALLATION
REINFORCING STEEL —

INDEX OF SHEETS

DB 3A- SITUATION AND LAYOUT
DB 3B- SCHEDULE OF INSTALLATION 0" TO 42" RCP AND 0" TO 54" CMP
DB 3C- SCHEDULE OF INSTALLATION 48" TO 72" RCP AND 60" TO 84" CMP

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL

CHAIRMAN STANDARDS COMMITTEE

APPROVED

DEPUTY DIRECTOR

STANDARD DIVERSION
BOX WITH MANHOLE
COVER SITUATION
AND LAYOUT

STD DWG
DB 3A

STANDARD DRAWING TITLE

REVISIONS

REMARKS

NO. DATE APPR.